1952 INDEX

VOLUME 39

AUTHOR INDEX

A

Ananiatis, N.
Cleaning and zinc plating heat-treated steel spring clips (Q) 280

A. S. T. M. Committee B-8
Tentative Recommended Practice for Preparation of and Plating on Aluminum Alloys 265, 366

Tentative Recommended Practice for Preparation of Zinc-Base Die Castings for Plating 759

B

Baldwin, A. T.
International Conference on Hot Dip Galvanizing 1225

Bauer, C. L.
Notes on the Electrodeposition of Thick Gold Deposits 1335

Binai, W. R.
Increasing Copper Content in White Brass and Copper Cyanide Solutions by Electrolytic Regeneration 1120

Brenner, A., *see* Zenter, V.

Brouwer, A. A., *see* Ewing, D. T.

C

Caldwell, M. R., L. B. Sperry, L. M. Morse and H. K. DeLong
Corrosion Resistance of Copper-Nickel-Chromium Plated Zinc-, Aluminum- and Magnesium-Base Die-castings 142

Clark, D. D., *see* Ewing, D. T.

Combs, E. L.
Chromium Plating Speed Tables 482

Cupps, C. C., *see* Keller, F. R.

D

DeLong, H. K., *see* Caldwell, M. R.

Dodge, B. F., *see* Serfass, E. J.

——— and W. Zabban
Analytical Methods for the Determination of Cyanates in Plating Wastes and in Effluents from Treatment Processes 381, 634

Disposal of Plating Room Wastes. III. Cyanide Wastes: Treatment with Hypochlorites and Removal of Cyanates. Addendum 385

Disposal of Plating Room Wastes. IV. Batch Volatilization of Hydrogen Cyanide from Aqueous Solutions of Cyanides 1133, 1235

Dominik, E. A., *see* Ledford, R. F.

Donroe, L.
Problem of masking off gears for copper plating (Q) ... 1045

E

Eastman, L. R.
Making Finishing Compositions 47

Eisler, S. J.
Radioactive Isotope Dilution Method for Determining Sulfate Concentration in Chromium Plating Baths ... 1019

Evans, U. R.
Corrosion of Iron and Its Prevention by Deposits of Non-Ferrous Metals 1337

Ewing, D. T., A. A. Brouwer, D. D. Clark, C. J. Owen, R. J. Rominski and J. K. Werner
Effect of Impurities and Purification of Electroplating Solutions. I. Nickel Solutions
5. The Effects and Removal of Zinc 1033

———, A. A. Brouwer and J. K. Werner
6. The Effects and Removal of Iron 1343

F

Foulke, D. G.
Most effective stop-off for selective nitriding (Q) 387

Method for removing ammonia from a nickel solution (Q) 387

Will cadmium in copper interfere in cyanide copper plating (Q) 387

Production testing of sulfuric anodic coatings on aluminum (Q) 1045

Aluminum bright dip (Q) 1143

——— and H. L. Pinkerton
Adhesion of silver plate on soft solder and silver plating of radar tubing (wave guides) (Q) 172

Freeman, R. B., *see* Serfass, E. J.

Fuller, W. R.
Clear Protective Coatings for Copper-Chromium Plate 616

G

Graham, A. K.
Conservation of Nickel in the Plating of Chemical Process Equipment 369

——— and H. L. Pinkerton
The Plating Wastes Problem from the Electroplater's Viewpoint 619

Grunwald, B.
Sales Promotion for the Job Plating Shop 42

H

Hanson, H. F., *see* Lancy, L. E.

Haslem, M. E., *see* Zappfe, C. A.

M—Mail Box Q—Question Box

Hausenman, I. K.
Copper Striking On Zinc Base Die-Castings 1125
Head, H. E.
Chromic Acid Anodizing Equipment and Its Practical Use 40
Herrmann, G. F.
Replating of brass plated zinc die castings (Q) 1143
Hoffman, F. E.
We Yearn to Learn—Continue A. E. S. Wives 1032
Hogaboom, G. B.
Patent Abstracts 78, 178, 285, 396, 500, 684, 788, 942, 1054, 1148, 1252, 1357

J

Jennings, C. W., *see* Zentner, V.

K

Keller, F. B., C. C. Cupps and R. E. Shaw
Recovery of Chromic Acid from Plating Operations 152
King, W., *see* Schaefer, R. A.
Korbelak, A. and E. C. Okress
Plating as an Aid in the Brazing of Stainless Steel 1220
Kroonheim, J.
Current and Metal Distribution in Electrodeposition. II. Theoretical Considerations 165
Krumbeck, W. J.
Your Dentist's a Plater, Too 1122
Kushner, J. B.
Electroplating of Gold Alloys (M) 354

L

Laken, T. H.
Finishing Parker Pens 149
Lancy, L. E. and H. F. Hanson
Waste Treatment Layout for a Job Plating Shop A Case History 250
LaQue, F. L.
Report of Advisory Committee on Accelerated Corrosion Tests 65
Ledford, R. F. and E. A. Dominik
Comparative Wear Characteristics of Some Electrodeposited Metals 360
Linford, H. B. and E. B. Saubestre
Cleaning and Preparation of Metals for Electroplating. IV. Degreasing Evaluation Tests: Sequential Testing 55
Logozzo, A.
Hard chromium plate on 18-8 stainless steel (Q) 1143

M

Mouse, L. M., *see* Caldwell, M. R.
Mohler, J. B.
Calibration of Plating Range Cells 175

O

Okress, E. C., *see* Korbelak, A.
Owen, C. L., *see* Ewing, D. T.

P

Parker, E. A.
Electroplating of Gold Alloys 43
Gold plating of radar wave guides (Q) 280
Paulson, C. F.
Metal Recovery by Ion Exchange 1330
Pinkerton, H. L.
Rinsing 1016
———, *see* Foulke, D. G.
———, *see* Graham, A. K.

R

Read, H. J.
Book Reviews 71, 163, 278, 379, 496, 622, 763, 931, 1024, 1142, 1248, 1352
Ricks, H. E.
Hard Chromium Plate to Improve the Corrosion Resistance of Tool Steel 1029
Robertson, W. D., *see* Schlaupitz
Rominski, R. J., *see* Ewing, D. T.

S

Saubestre, E. B., *see* Linford, H. B.
Schaefer, R. A. and W. King
Polarization and Overvoltage Selected Bibliographical Abstracts 487, 627, 769
Schlaupitz, H. C. and W. D. Robertson
Quantitative Measurement of Adhesion of Electrodeposited Metals 750, 862
Serfass, E. J., B. B. Freeman, B. F. Dodge and W. Zabban
Analytical Methods for the Determination of Cyanides in Plating Wastes and in Effluents from Treatment Processes 267
Shaw, R. E., *see* Keller, F. B.
Shipley, M. S.
Barrel Finishing
II. Selection of Equipment 257
III. Planning a Barrel Finishing Department 860, 1230
Soderberg, G.
Some Characteristics of Zinc Cyanide Plating Solutions
II. Haring Cell Throwing Power 255
III. Limiting Anode Current Density and Solution Resistivity 377
Practical method for determining iron and acid content in sulfuric acid pickle (Q) 70
Preventing the climbing and incrustation of silver solutions (Q) 70
Cleaning and zinc plating heat-treated steel spring clips (Q) 70
Preventing the formation of ferrocyanides in low pH bronze solutions (Q) 280
Cracking of white brass plate under chromium (Q) 387
Sperry, L. B.
Spotting out of brass plated zinc-base diecastings (Q) 70
Article Abstracts 76, 938, 1146, 1250, 1353
———, *see* Caldwell, M. R.

W

Wallbank, A. W.
The Plating of Aluminum Articles as a Production Process 755, 1024
Werner, J. K., *see* Ewing, D. T.

Z

Zabban, W., *see* Serfass, E. J.
———, *see* Dodge, B. F.
Zapffe, C. A. and M. E. Haslem
Note on Embrittlement from Alkaline Tin Plating 468
Zeder, J. C.
Presentation Address Carl E. Heussner Memorial Award 1223
Zentner, V., A. Brenner and C. W. Jennings
Physical Properties of Electrodeposited Metals. I. Nickel
3. The Effect of Plating Variables on the Structure and Properties of Electrodeposited Nickel 865, 1229

A

Accelerated Corrosion Tests, Report of Advisory Committee on ... 65
Acid dip in cleaning of zinc diecastings ... 761
Adhesion of Electrodeposited Metals, Quantitative Measurement of ... 750, 862
of silver plating to solder (Q) ... 172
test, characteristics of ... 751
testing, nodule method for ... 862
A. E. S. Gavels, the Story of ... 754
Alkaline tin plating ... 468
Aluminum Alloys, Tentative Recommended Practice for Preparation of and Plating on ... 265, 366
Aluminum Articles, the Plating of, as a Production Process ... 755, 1024
bright dip (Q) ... 1143
corrosion testing of plated coatings on ... 142
preparation of prior to plating ... 143, 365, 366
thickness testing of anodic coatings on (Q) ... 1045
Ammonia, removal of, from a nickel solution (Q) ... 387
Analytical Methods for the Determination of Cyanates in Plating Wastes and in Effluents from Treatment Processes ... 381
Analytical Methods for the Determination of Cyanides in Plating Wastes and in Effluents from Treatment Processes ... 267
Anodizing, cleaning equipment for ... 40
current generating equipment for ... 40
racks for ... 41

B

Baking cycle for lacquer films on chromium ... 618
Barrel Finishing
II. Selection of Equipment ... 257
III. Planning a Barrel Finishing Department ... 860, 1230
Barrel gold plating ... 150
Blistering in copper striking ... 1126
of zinc plated steel spring clips (Q) ... 70, 280
Brass plating aluminum alloys ... 366
Brassy color in copper striking ... 1125
Brazing of Stainless Steel, Plating as an Aid in the ... 1220
Bronze plating as a stop-off for nitriding (Q) ... 387
Buffing of zinc-base diecastings ... 760

C

Cadmium impurity in a copper solution, removal of (Q) ... 387
plating of aluminum ... 366
Carbonated water test for chrome plated steel ... 1029
Casting pattern on diecastings ... 1126
Chromate recovery system ... 1331
Chromic Acid Anodizing Equipment and Its Practical Use ... 40
Recovery of, From Plating Operations ... 152
waste treatment system ... 253
Chromium plate for corrosion resistance of tool steel ... 1029
on stainless steel (Q) ... 1143
on aluminum ... 367
Chromium Plating Speed Tables ... 482
recovery by ion exchange ... 1331
Cleaning and conditioning of aluminum for plating ... 265
Cleaning and Preparation of Metals for Electroplating
IV. Degreasing Evaluation Tests: Sequential Testing ... 55
Cleaning and zinc plating of heat treated steel spring clips (Q) ... 70, 280
Clear baked coatings on zinc ... 622
Coating thickness of lacquer on chromium ... 618
Compositions, Making Finishing ... 47
Convention Papers, Abstracts of ... 762, 928, 1018
Copper-Chromium Plate, Clear Protective Coatings for ... 616
Copper-Nickel-Chromium Plated Zinc-, Aluminum- and Magnesium-Base Diecastings, Corrosion Resistance of ... 142
Copper plating on aluminum ... 366
recovery by ion exchange ... 1330
striking of zinc base diecastings ... 761, 1125
Corrosion of Iron and Its Prevention by Deposits of Non-Ferrous Metals ... 1337
of steel ball anode containers in cyanide baths (Q) ... 280
testing of plated aluminum, zinc and magnesium ... 142
types of, on plated diecastings ... 161
Current and Metal Distribution in Electrodeposition ... 165
Cyanates, determination of ... 381
Cyanides, determination of ... 267
Cyanide waste treatment system ... 254

D

Degreasing evaluation tests ... 55
of zinc-base diecastings ... 760
Diaphragm, deresinized wood ... 1121
Dielectric strength of anodic coatings on aluminum (Q) ... 1045
Disposal of Plating Room Wastes
III. Cyanide Wastes—Treatment with Hypochlorites and Removal of Cyanates—Addendum ... 385
IV. Batch Volatilization of Hydrogen Cyanide from Aqueous Solutions of Cyanides ... 1133, 1235

E

Effect of Impurities and Purification of Electroplating Solutions
I. Nickel Solutions
5. The Effects and Removal of Zinc ... 1033
6. The Effects and Removal of Iron ... 1343
Electrical properties of nickel deposits ... 907
Electrocleaning of zinc-base diecastings ... 761
of stainless steel parts ... 1221
Electrolytic Regeneration, Increasing Copper Content in White Brass and Copper Cyanide Solutions by ... 1120
Electronic tubes, plating of ... 1220
Electrosterilization ... 1123
Electrotyping solutions ... 362
Emulsion cleaning of zinc-base diecastings ... 760

F

Ferrocyanide formation in low *p*H bronze baths, prevention of (Q) ... 280
Finishing Parker Pens ... 149
Floor pitch and drainage in barrel finishing department ... 861

G

Gold Alloys, Electroplating of ... 43, 354
Gold, Notes on the Electrodeposition of Thick Deposits ... 1335
Gold plating of aluminum ... 367
radar wave guides (Q) ... 280

Gold, recovery by ion exchange 1332
solution formula, antique 45
green 43
white 44

H

Hard Chromium Plate to Improve the Corrosion Resistance of Tool Steel 1029
Haring cell throwing power of zinc cyanide solutions 255
Heat treatment of nickel deposits 919
Heussner Memorial Award, Presentation Address 1223
Hot Dip Galvanizing, International Conference on Paper Abstracts 1225
Humidity test for chromium plated steel 1030

I

Immersion zinc solution 266
Ion Exchange, Metal Recovery by 1330
Iron, removal of from nickel solutions 1343
Iron and free sulfuric acid, determination of (Q) 70
Isotope dilution method for determining sulfate 1019

J

Job Plating Shop, Sales Promotion for the 42
Waste Treatment Layout for a 250

L

Lacquer coatings on chromium plate 616
Liebig titrimetric method for cyanide analysis 271
Limiting anode current density of zinc cyanide baths 377

M

Magnesium, preparation of prior to plating 143
Magnetic properties of nickel deposits 907
Mechanical properties of nickel plate 891
Metal Finishing Productivity Report 67

N

Nickel in the Plating of Chemical Process Equipment, Conservation of 369
Nickel, Physical Properties of
3. The Effect of Plating Variables on the Structure and Properties of Electrodeposited Nickel 865, 1229
Nickel plating of aluminum 367
stainless steel 1221
Nickel recovery by ion exchange 1332
Nickel solutions in the graphic arts industry 362
Nodule method for testing adhesion 862

P

Pen finishing 149
Performance testing of decorative plated coatings 65
Pitting in copper striking 1126
Plastics, tumbling of 259
Plating on aluminum, methods for 756
Plating Range Cells, Calibration of 475
Plating Wastes Problem from the Electroplater's Viewpoint, The 619
Polarization and Overvoltage—Selected Bibliographical Abstracts 187, 627, 769
Precious metal recovery by ion exchange 1332
Pyridine-pyrazolone colorimetric method for cyanide analysis 272

R

Racking for plating on aluminum 368
Radioactive Isotope Dilution Method for Determining Sulfate Concentration in Chromium Plating Baths 1019
Rating of corrosion tested panels 143
Rinsing 1016
Roughness in copper striking 1126

S

Salt spray (fog) test 65, 1035
resistance of anodic coatings on aluminum (Q) 1045
Screen testing of lacquer films on chromium 617
Sequential tests, reproducibility of 58
Silicone grease, use of on plating tanks (Q) 70
Silver plating on aluminum 368
recovery by ion exchange 1332
solution climbing and incrustation, prevention of (Q) 70
Spotting out on brass plated zinc-base diecastings (Q) 70
Stop-off for copper plating (Q) 1045
for selective nitriding (Q) 387
Strip, Coating of, at the Thomas Strip Division of Pittsburgh Steel Company 470
Stripping of clear lacquer coatings on chromium 618
of brass plated zinc diecastings (Q) 1143
Submerged rolling in barrel finishing 258

T

Tin Plating, Alkaline, Note on Embrittlement from 468
Tin plating on aluminum 368
Tin recovery by ion exchange 1330
Treatment of chromium plate prior to lacquering 617

V

Vacuum devices, nickel plating for 1220
Vogt process for plating aluminum 756

W

Washington Orders 66, 171, 276, 385, 494, 634, 1042, 1140, 1244
Waste disposal 385, 1133, 1235
Waste Treatment Layout for a Job Plating Shop 250
Wear Characteristics, Comparative, of Some Electrodeposited Metals 360
Wood diaphragms 1121
White brass plate, cracking of (Q) 387
plating 1120

Y

Your Dentist's a Plater, Too 1122

Z

Zinc-, aluminum- and magnesium base diecastings, corrosion of plated 142
Zinc-Base Die Castings, Tentative Recommended Practice for Preparation of for Plating 759
Zinc-Base Diecastings, Copper Striking on 1125
brass plated (Q) 1143
Zinc Cyanide Plating Solutions, Some Characteristics of 255, 377
Zinc plating of aluminum 368
of steel spring clips (Q) 70, 280
Zinc recovery by ion exchange 1330
removal of from nickel solutions 1036